Index of Claims

| Application No. | Applicant(s)        |  |
|-----------------|---------------------|--|
| 10/646,218      | ENGELHARDT, MANFRED |  |
| Examiner        | Art Unit            |  |
| DiLinh Nguyen   | 2814                |  |

Rejected Allowed

(Through numeral) Canc lled Restricted

Non-Elected N Interference

DiLinh Nguyen

App al 0 Objected

| E     F       | Da                  |  | Claim       | ][ |  | Date  |                    | im       | Cla       | ];;;; |                 | -  | е        | Date            | [  |  |          |  | im      | Cla  |
|---|---------------------|--|-------------|----|--|---|--------------------|----------|-----------|-------|-----------------|--|----------|-----------------|--|--|----------|--|---------|--|
| 1   |                     |  |             |    |  |   |                    | <u>a</u> |           |       |                 |  |          |                 |  |  |          | 05   | <u></u> |  |
| 1   |                     |  | in a        |    | $  \cdot  $                                      |   | 1                  | Ë        | 교         |       |                 |  |          |                 |  |  |          | $\tilde{z}$                                      | gi      | ina<br>Ina                                       |
| 1     1     1     1     101     101     102     102     103     103     103     103     103     103     103     103     103     103     103     103     103     103     103     103     104     104     104     104     104     104     104     104     105     105     105     105     105     105     107     107     107     107     107     107     107     107     107     107     107     108     108     108     108     108     109     109     100     100     100     100     100     100     100     110     110     111     111     112     112     112     113     113     113     113     114   | 1 1                 |  | <u>.</u> [2 |    |  |   | 1                  | 6        | Œ         |       |                 |  |          |                 |  |  |          | 04   | Ö       | 证  |
| 102   103   104   104   104   105   106   106   106   107   107   108   109   109   100 | ++                  | +  |             |    | <del>                                     </del> | <del>                                     </del>  |                    |          | $\vdash$  | -     |                 | -  | $\vdash$ | $\vdash \vdash$ | -  | ╀                                      | _        |  |         |  |
| 3   | ++                  |  |             |    | +  | <del>  - - </del>                                 | +++                |          |           | -     | _               | <del>   </del> -                                 | $\vdash$ | $\vdash$        | $\vdash$                                       | ┢                                      |          | _  |         |  |
| 4   V       55   V       56       105       105       105       105       105       106       105       106       107       8       107       8       107       108       107       108       107       108       109       100       100       100       100       100       100       100       100       100       100       100       100       100       110       111       101       111   <td< td=""><td>+</td><td></td><td></td><td></td><td>╁╌┾╌┤</td><td></td><td>+</td><td></td><td><math>\vdash</math></td><td>1</td><td>+</td><td><math>\vdash</math></td><td>H</td><td>Н</td><td><math>\vdash</math></td><td>⊢</td><td></td><td></td><td></td><td></td></td<>  | +                   |  |             |    | ╁╌┾╌┤  |   | +                  |          | $\vdash$  | 1     | +               | $\vdash$   | H        | Н               | $\vdash$                                       | ⊢                                      |          |  |         |  |
| 55  | +                   |  |             | 1  | 1 1  | <del>                                     </del>  | +++                |          | $\vdash$  | 1     | _               | -  |          | Н               | +  | $\vdash$                               | _        |  |         |  |
| 6     7     56     107     107     107     107     107     107     108     109     100     1008     109     1008     109     110     1008     109     110     110     110     111     111     112     60     1110     111     111     111     111     111     111     112     112     112     112     112     112     112     112     112     112     112     112     113     113     113     113     113     113     113     113     113     113     113     113     113     114   | ++                  |  |             |    | 1 1  | <del>                                      </del> | +++                |          | $\vdash$  | 1     | +               | $\vdash$   | $\vdash$ |                 | $\vdash$                                       | +                                      | _        | _  |         |  |
| 7     8     8     55     107     108     9     108     9     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     110     110     111     110     111     <  | $\top$              |  |             |    | $\Box$   |   |                    |          |           | 1     |                 | $\vdash$   | П        | Н               | П  | t                                      | _        | Ħ  |         |  |
| S   |                     |  |             |    |  |   |                    | 57       |           | 1     |                 |  | П        |                 | П  |  |          | П  | 7       |  |
| 10  |                     |  |             |    |  |   |                    |          |           | ]     |                 |  |          |                 |  |  |          |  |         |  |
| 11  | $\bot\bot$          |  |             |    | $\perp \perp \mid$                               |   |                    |          |           |       |                 |  |          |                 |  |  |          |  |         |  |
| 12  | $\dashv$            |  |             |    | +  | $\Box$  | $\bot \bot \bot$   |          |           | J     |                 | $\sqcup$   |          |                 | <u> </u>                                       | ــــــــــــــــــــــــــــــــــــــ |          |  |         |  |
| 13  | ++                  |  |             |    | 4-1-1  | +++   | +++                |          |           | _     |                 |  |          |                 | <u> </u>                                       | <u> </u>                               |          | Ш  |         |  |
| 14  | ++                  | -  |             |    | +  | +++   |                    |          | $\square$ | 4     |                 | $\vdash \vdash$                                  | $\vdash$ | $\vdash$        |  | _                                      |          | Ш  |         |  |
| 15  | ++                  |  |             |    | +  | <del>                                     </del>  | +++                |          |           | 4     |                 | -  | $\sqcup$ | Н               | $\vdash$                                       | $\vdash$                               | <u> </u> | Ш  |         |  |
| 16  | ++                  | <del>                                     </del> |             |    | ++-  | + + + +   | +++                |          |           | -     | $\dashv$        | $\vdash$   | Н        | Н               | +-   | +                                      |          | $\vdash$   |         |  |
| 17  | ++                  |  |             | ┧║ | <del>       </del>                               | <del>                                     </del>  | ╂                  |          |           | -     |                 | $\vdash \vdash$                                  | Н        | H               | +  | +                                      |          | Н  |         |  |
| 18   19   68   118   119     20   70   120   120   120     21   71   121   121   121   122   122   123   123   123   124   122   123   123   124   124   125   125   125   126   127   127   127   128   128   128   129   129   130   130   131   131   131   131   131   131   131   131   132   133   133   133   133   133   134   134   134   134   134   134   134   134   135   135   136   135   136   137   137   138   138   138   138   138   138   139   140   140   141   141   141   144  | ++                  | <del>                                     </del> |             |    | 1 1  | <del>                                     </del>  | +++                |          |           | -     |                 | $\vdash$   | Н        | -               | +  | +                                      | _        | Н  |         |  |
| 19  | ++                  |  |             |    | +-   | 1 1 1   | +++                |          |           | 1     | +               | -  | Н        | Н               | ╁╌   | ╁                                      | -        | Н  |         |  |
| To   To   To   To   To   To   To   To   | $\top$              |  |             |    |  |   | +                  |          |           | 1     |                 |  | Н        | Н               | t  | +                                      | -        | Н  |         |  |
| 21     22     121     122     122     122     122     122     122     122     122     123     123     123     124     124     125     125     125     126     125     126     127     127     127     127     127     128     128     128     128     128     129     129     130     130     130     131     130     131     131     133   |                     |  | 120         |    |  |   | 111                |          |           | 1     |                 |  | П        |                 | <u>†                                      </u> | 1                                      |          |  |         |  |
| 22     33     122     123     123     123     123     123     123     124     124     124     125     125     125     126     126     126     126     126     127     127     127     127     127     127     128     128     128     128     129     129     129     129     129     129     129     129     129     130     130     130     131     131     131     131     131     131     132     132     132     132     132     133     134     134     134     134     134     134     134     134     134     135     136     136     136     137     137     137     137     137     137     137     137     137   |                     |  | 121         |    |  |   |                    |          |           | 7     |                 |  | П        | П               | 1  |  |          |  |         |  |
| 24     74     124     125     125     125     126     125     126     126     126     126     127     127     127     127     127     127     127     127     127     128     128     128     128     129     129     129     129     130     130     130     130     131     131     131     131     131     131     132     132     132     132     132     133     133     133     133     133     133     133     134     134     134     134     134     134     135     135     135     136     136     136     136     137     138     138     138     138     138     138     138     138     139     140     140     140     141     141     141     142     142     143     144     144     144     144     144     144     144     144     144     144     144     144     144     144   |                     |  |             |    |  |   |                    |          |           | ]     |                 | П  | П        | П               |  | Î                                      |          |  |         |  |
| 25     75     125     126     126     126     126     126     127     127     127     127     128     128     128     128     128     128     128     128     129     129     129     129     130     130     130     130     130     130     130     131     131     131     131     131     131     132     132     132     132     133     133     133     133     133     133     134     134     134     134     134     134     135     135     135     135     135     135     136     137     137     137     137     138     138     138     138     138     138     138     139     140     140     141     140     141     141     142     143     144     144     144     144     144     144     144     144     144     144     144     145     145     145     145     146     146   | $\bot \bot$         |  |             |    |  |   |                    |          |           |       |                 |  |          |                 |  |  |          |  |         |  |
| 26     76     126     127       28     77     128     128     128       29     79     129     129     130     130     131     131     131     132     132     132     133     133     133     133     133     133     133     133     133     133     134     134     134     134     134     134     135     135     135     136     136     137     137     137     137     138     138     138     138     138     139     140     140     141     141     141     142     142     142     142     142     143     143     143     144     144     144     144     144     144     145     145     146   | $\dashv$            |  |             |    |  |   |                    | 74       |           | ]     |                 |  | Ш        |                 |  |  | L        |  |         |  |
| 27     77     127     128     128     128     128     128     128     129     129     129     130     130     130     130     131     131     131     131     131     131     132     132     132     132     132     133   | _ _ -               |  |             |    | 1  |   | 1-1-1              |          |           | _     | $\perp \perp$   |  | Ш        | Ш               | <u> </u>                                       |  | _        |  |         |  |
| 28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   136     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146   | +                   |  |             | 4  |  |   |                    |          | <u> </u>  | 4     |                 | <del>     </del>                                 | Ш        | Ш               | ┡  | 1                                      | <u> </u> | _  |         |  |
| 29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146   | <del>-   -  -</del> |  |             | -  |  | <del>                                     </del>  | +-++               |          |           | 4     |                 | $\vdash$   | -        | H               | $\vdash$                                       | +                                      | _        | $\vdash$   |         |  |
| 30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146   | <del></del>         | - -  |             | -  | +  | <del>                                     </del>  | +++                |          | <u> </u>  | -     |                 | ┵  | $\vdash$ | H               | ╁  | ╀                                      |          | -  |         |  |
| 31     81     131     132     132     132     133     133     133     133     133     133     133     133     133     133     133     134     134     134     134     134     134     135     135     135     135     135     136     136     136     136     137     137     137     137     137     138     138     138     138     139     140     141     141     141     141     141     141     141     141     142     142     142     142     143     144     144     144     144     144     144     145     145     146   | ++                  | ++   |             | -  | ++-  | <del>                                     </del>  | +++                |          | -         | -     |                 | ╆  | ┢╌       | H               | +  | ╁                                      | ⊢        | -  |         |  |
| 32     82     132     133       33     83     133     133     134       34     84     134     134     135     135     135     135     136     136     136     137     137     137     137     137     137     138     138     138     138     138     138     139     139     140     140     140     140     141     141     141     141     141     142     142     142     143     143     143     144     144     144     144     144     145     145     146   | ++                  |  |             | 1  | 1  |   | + + +              |          |           | -     | $\vdash$        | <del>                                     </del> | Н        | $\vdash$        | ╁╌   | +                                      | ┝        | $\vdash$   |         | <del> </del>                                     |
| 33   83   133   134     34   84   134   134     35   85   135   135     36   86   136   137     38   87   137   137     38   88   138   138     39   89   139   139     40   90   140   141     41   91   141   141     42   92   142   142     43   93   143   144     44   94   144   144     45   95   145   145     46   96   146   146   | +                   |  |             |    | 1 1  | <del>                                     </del>  | <del>     </del>   |          |           | 1     | $\vdash$        | +  | $\vdash$ | $\vdash$        | +  | +                                      | $\vdash$ | Н  |         |  |
| 34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146   | $\neg$              |  |             | 1  |  | <del>                                     </del>  | ++-                |          |           | -     |                 | $\Box$   | H        |                 | +  | $\vdash$                               | <u> </u> | Н  |         |  |
| 35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146   |                     |  | 134         | 1  |  |   | 1 1 1              |          |           | 1     |                 | $\vdash$   | П        | П               |  | T                                      | Г        | М  |         |  |
| 36   37   86   136   137     38   88   138   138     39   89   139   139     40   90   140   140     41   91   141   141     42   92   142   142     43   93   143   143     44   94   144   144     45   95   145   145     46   96   146   146  |                     |  | 135         |    |  |   |                    | 85       |           | ];;;; |                 |  | П        |                 |  | $\top$                                 |          | П  |         |  |
| 38 88   39 90   40 91   41 91   42 92   43 93   44 94   45 95   46 96   |                     |  |             |    |  |   |                    | 86       |           |       |                 |  |          |                 |  |  |          |  | 36      |  |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   | $\perp$             |  |             |    |  |   |                    |          |           |       |                 |  |          |                 |  |  |          |  |         |  |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   | 44                  |  |             |    | $\bot\bot$                                       | $\sqcup \sqcup \sqcup$                            | 444                |          |           | 4     |                 |  |          |                 |  | $\Box$                                 |          |  |         |  |
| 41 91 141   42 92 142   43 93 143   44 94 144   45 95 145   46 96 146   | ++                  |  |             | 4  | +  | $\bot$  | +++                |          |           | 4     | otharpoonup     | $\sqcup$   | $\sqcup$ | Щ               | <u> </u>                                       | 1                                      | _        |  |         |  |
| 42 92   43 93   44 94   45 95   46 96   | ++                  |  |             | 4  | +  | <del>                                     </del>  | +++                |          |           | 4111  | $\vdash \vdash$ | -  | Щ        | $\sqcup$        | <del> </del>                                   | 1                                      |          |  |         |  |
| 43 93   44 94   45 95   46 96   | ++                  | <del>                                     </del> | 141         | -  | ++-  | +++   | +++                |          |           | -     | $\vdash \vdash$ | $\vdash$   | $\vdash$ | $\vdash$        | +  | ┼                                      | <u> </u> | <u> </u>   | 41      | <u> </u>   |
| 44 94 144   45 95 145   46 96 146   | <del>- - -</del>    | <del>                                     </del> | 142         | -  | + +-   | ++-+-   | +++                |          |           | -     |                 |  | $\vdash$ | $\vdash$        | ┼  | +                                      | $\vdash$ | -  |         | <del> </del> —                                   |
| 45 95 145 146 146 146 146 1   | ++                  | <del>                                     </del> | 143         | -  | + + -  | <del>                                     </del>  | +++                |          |           | -     |                 | <del>   </del>                                   |          | $\vdash$        | ╀  | +                                      | -        | -  |         |  |
| 46 96 146 146   | ++                  |  |             |    | <del>                                     </del> | ╁╌┼╌┼   | + + +              |          | -         | 1     |                 | +-+  | $\vdash$ | $\vdash$        | +  | +                                      | -        | $\vdash$   |         | <u> </u>   |
|   | ++                  | <del>                                     </del> | 146         | 1  | + + -  |   | <del>- - - -</del> |          | -         | 1     |                 | +  | $\vdash$ | $\vdash$        | +  | +                                      | $\vdash$ | -  |         | <del>                                     </del> |
| 47  | 11                  |  | 147         | 1  | 11   | <del>                                     </del>  | +++                | 97       |           | ۱     | $\vdash$        |  | T        | Н               | +  | †                                      | $\vdash$ | <del>                                     </del> | 47      | $\vdash$   |
| 48 98 148   |                     |  | 148         | 1  | 11   |   | 111                | 98       |           | 1     |                 |  | Π        | $\vdash$        | 1  | $\top$                                 | T        |  |         | <u> </u>   |
| 49 99 1149 149  |                     |  | 149         |    |  |   |                    | 99       |           | ]     |                 |  |          |                 |  |  |          |  | 49      |  |
| 50 100 150 150  |                     |  | 150         |    |  |   |                    | 100      |           | ]     |                 |  |          |                 |  | $oxed{\Box}$                           |          |  | 50      |  |